

Application Serial No: 10/577,269

Responsive to the final Office Action mailed on: November 17, 2009

RECEIVED
CENTRAL FAX CENTER

FEB 10 2010

REMARKS

This Amendment is in response to the Office Action mailed on November 17, 2009. Claim 1 is amended and is supported, for example, in the specification on page 9, lines 4-8; page 10, lines 18-20; and in Figure 2A. No new matter is added. Claims 1-12 are pending.

§103 Rejections:

Claims 1-6 and 8-12 are rejected as being unpatentable over Furubayashi (US Patent No. 6,427,455). This rejection is traversed.

Claim 1 is directed to a cooling device that recites, among other features, $a/D = 1/2$ to $1/4$ is satisfied so that an air flow is generated that comes from a side of the cooling chamber, moves around both lateral surfaces and a back surface of the cooler, and flows into the cooling chamber.

Furubayashi does not teach or suggest these features. As shown in Figure 3 of Furubayashi, circulation air from the cooling chamber passes through the cooler 7, flows toward a back surface of the cooler 7, and again passes through the cooler 7 from the back surface of the cooler 7. Nowhere does Furubayashi teach or suggest generating an air flow, that comes from a side of the cooling chamber, moves around both lateral surfaces and a back surface of the cooler, and flows into the cooling chamber. Thus, Furubayashi does not teach or suggest that the equation $a/D = 1/2$ to $1/4$ is satisfied so that an air flow is generated that comes from a side of the cooling chamber, moves around both lateral surfaces and a back surface of the cooler, and flows into the cooling chamber, as recited in claim 1.

The configuration of Furubayashi seeks to improve the efficiency of cooling air by accelerating an air flow passing through the inside of the cooler. Thus, Furubayashi does not seek to generate an air flow that comes from a side of the cooling chamber, moves around both lateral surfaces and a back surface of the cooler, and flows into the cooling chamber, as required by claim 1. Accordingly, one skilled in the art would not contemplate or be motivated to modify the configuration of Furubayashi to obtain the above features of claim 1.

RECEIVED
CENTRAL FAX CENTER

FEB 10 2010

Application Serial No: 10/577,269

Responsive to the final Office Action mailed on: November 17, 2009

For at least these reasons claim 1 is not suggested by Furubayashi and should be allowed. Claims 2-6 and 8-12 depend from claim 1 and should be allowed for at least the same reasons.

Claim 7 is rejected as being unpatentable over Furubayashi in view of Symko (US Patent No. 6,574,968). This rejection is traversed. Claim 7 depends from claim 1 and should be allowed for at least the same reasons discussed above. Applicants do not concede the correctness of this rejection.

Conclusion:

Applicants respectfully assert that claims 1-12 are in condition for allowance. If a telephone conference would be helpful in resolving any issues concerning this communication, please contact Applicants' primary attorney-of record, Douglas P. Mueller (Reg. No. 30,300), at (612) 455-3804.



¹⁰
Dated: February 9, 2010

Respectfully submitted,

HAMRE, SCHUMANN, MUELLER &
LARSON, P.C.
P.O. Box 2902
Minneapolis, MN 55402-0902
(612) 455-3800

By: 

Douglas P. Mueller
Reg. No. 30,300
DPM/ahk